

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
31 March 2005 (31.03.2005)

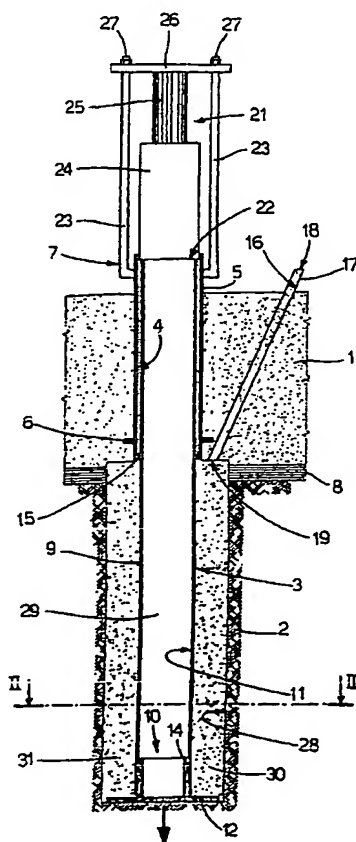
PCT

(10) International Publication Number  
**WO 2005/028759 A1**

- (51) International Patent Classification<sup>7</sup>: **E02D 27/48, 5/28** (74) Agents: **JORIO, Paolo et al.**; C/o Studio Torta S.r.l., Via Viotti, 9, 10121 Torino (IT).
- (21) International Application Number: **PCT/IT2003/000568**
- (22) International Filing Date: **24 September 2003 (24.09.2003)**
- (25) Filing Language: **Italian**
- (26) Publication Language: **English**
- (71) Applicant (for all designated States except US): **SO.L.E.S. - SOCIETÀ LAVORI EDILI E SERBATOI S.P.A.** [IT/IT]; Via Gramadora, 5, Villa Selva, I-47100 Forlì (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **COLLINA, Vincenzo** [IT/IT]; Via Scaletta, 4, I-47100 Villagrappa (IT). **ZAGO, Roberto** [IT/IT]; Via Mascagni, 8, I-38068 Rovereto (IT). **ZAMBIANCHI, Lamberto** [IT/IT]; Via dei Prati, 1, I-47010 Villafranca (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **METHOD OF CONSTRUCTING A PILE FOUNDATION**



(57) Abstract: A method of constructing a pile foundation, wherein a foundation structure (1) is built on the ground (2), and has at least one though hole (4), and a connecting member (5) fixed to the foundation structure (1), adjacent to the hole (4), and having at least one portion (7) projecting upwards; a pile (3) is inserted through the hole (4); and a number of thrusts are applied statistically on the pile (3), to drive the pile (3) into the ground (2), by means of a thrust device (21), which is located over the pile (3), cooperates with a top end (22) of the pile (3), and is connected to the projecting portion (7) of the connecting member (5) which, when driving the pile, acts as a reaction member for the thrust device (21).

WO 2005/028759 A1



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*